

IN THE CLAIMS

8. (New) A method comprising
 - performing density gradient centrifugation on bone marrow; and
 - isolating human mesenchymal stem cells from a fraction having a density of 1.050 – 1.070 g/ml.
9. (New) The method according to claim 1, wherein said performing uses an isotonic solution of Ficoll® or Percoll®.
10. (New) The method according to claim 2, wherein said isotonic solution is Percoll® and said density is 1.068 g/ml.
11. (New) A mesenchymal stem cell obtained according to a method of claim 1.
12. (New) A mesenchymal stem cell obtained according to a method of claim 2.
13. (New) A mesenchymal stem cell obtained according to a method of claim 3.
14. (New) A pharmaceutical preparation comprising a mesenchymal stem cell according to claim 4.
15. (New) A pharmaceutical preparation comprising a mesenchymal stem cell according to claim 5.
16. (New) A pharmaceutical preparation comprising a mesenchymal stem cell according to claim 6.
17. (New) A method of manufacturing a pharmaceutical preparation comprising
 - formulating isolated mesenchymal stem cells according to claim 1 and one or more pharmaceutically acceptable excipient(s) and/or carrier(s).
18. (New) A method of manufacturing a pharmaceutical preparation comprising
 - formulating isolated mesenchymal stem cells according to claim 2 and one or more pharmaceutically acceptable excipient(s) and/or carrier(s).
19. (New) A method of manufacturing a pharmaceutical preparation comprising
 - formulating isolated mesenchymal stem cells according to claim 3 and one or more pharmaceutically acceptable excipient(s) and/or carrier(s).
20. (New) A method of isolating mesenchymal stem cells from bone marrow comprising
 - performing density gradient centrifugation using a solution of Ficoll® or Percoll® with a density of 1.068 g/ml.